CEM SYSTEMS

victor Integration Component

Installation and configuration guide

AC2000SE v7.0

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Email: cem.support@tycoint.com

• Please provide our support engineers with as much information as possible. This may include:

• Site name

• Product name and model

• CEM software version

• Description of the problem

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Contents

Chapter 1

Introduction to victor Site Manager

Note

victor is a management interface produced by American Dynamics (AD), that enables a user to manage live/recorded video from multiple DVR types.

The primary goal of **victor Site Manager** (AD) with the **CEM victor Integration** component is to display live video on one of the monitored **victor Unified Client** screens, when specific alarms occur on particular AC2000 devices.

Alarms logged on the AC2000 system can be sent to victor, including, alarms from 3rd party intruder systems such as DSC, Galaxy, Perimeter or Fire systems.

It is also possible to send commands such as **Unlock Door**, **Lock Door** and **OneShot Door** to AC2000 card readers from the **victor Unified Client** (AD).

1.1 About this Guide

This guide describes how to:

- Install the **CEM victor Integration** component

- Configure AD **victor Site Manager** to use **CEM victor Integration**

1.2 Overview of CEM victor Integration

The **CEM victor Integration** component can be installed on either:

- A workstation with an AD **victor Site Manager** and an AD **victor Unified Client** installed on it.

- A workstation with an AD **victor Unified Client** installed on it and connected to an AD **victor Site Manager**.

Please refer to Figure 1 and Figure 2 for an installation overview for each scenario.

1.2.1 Installing CEM victor Integration component

For the installation scenario given in this manual, it is assumed that **victor Site Manager** and **victor Unified Client** are both installed on the same workstation.

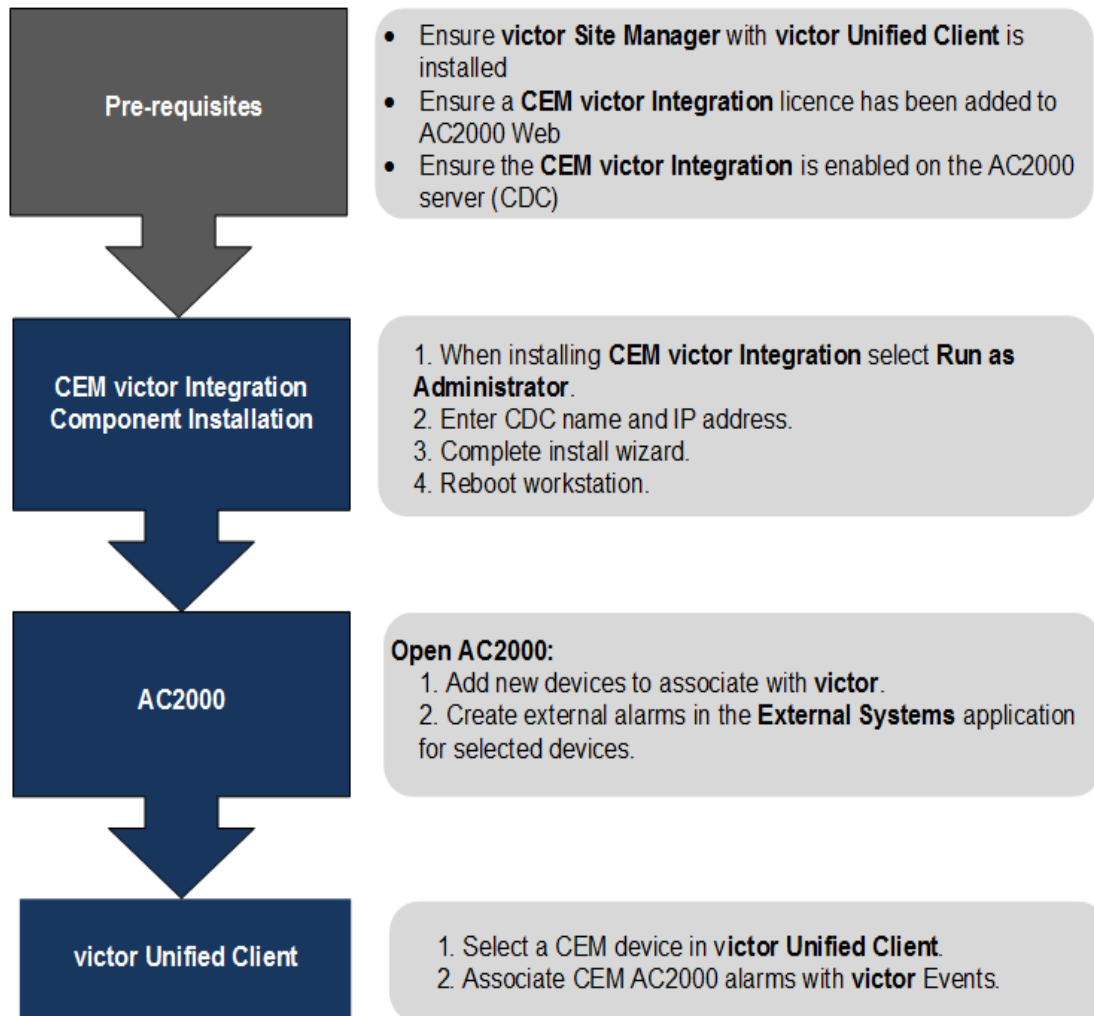To install the **CEM victor Integration** component, a number of steps must be performed.

Pre-requisites
- Ensure **victor Site Manager** with **victor Unified Client** is installed
- Ensure a **CEM victor Integration** licence has been added to AC2000 Web
- Ensure the **CEM victor Integration** is enabled on the AC2000 server (CDC)

CEM victor Integration Component Installation
1. When installing **CEM victor Integration** select **Run as Administrator**.
2. Enter CDC name and IP address.
3. Complete install wizard.
4. Reboot workstation.

AC2000

Open AC2000:
1. Add new devices to associate with **victor**.
2. Create external alarms in the **External Systems** application for selected devices.

victor Unified Client
1. Select a CEM device in **victor Unified Client**.
2. Associate CEM AC2000 alarms with **victor** Events.

Figure 1 CEM victor Integration

1.2.2 Overview for a victor Unified Client only workstation

The graphic below describes the installation procedures, when the **victor Site Manager** and **victor Unified Client** are installed on different workstations.
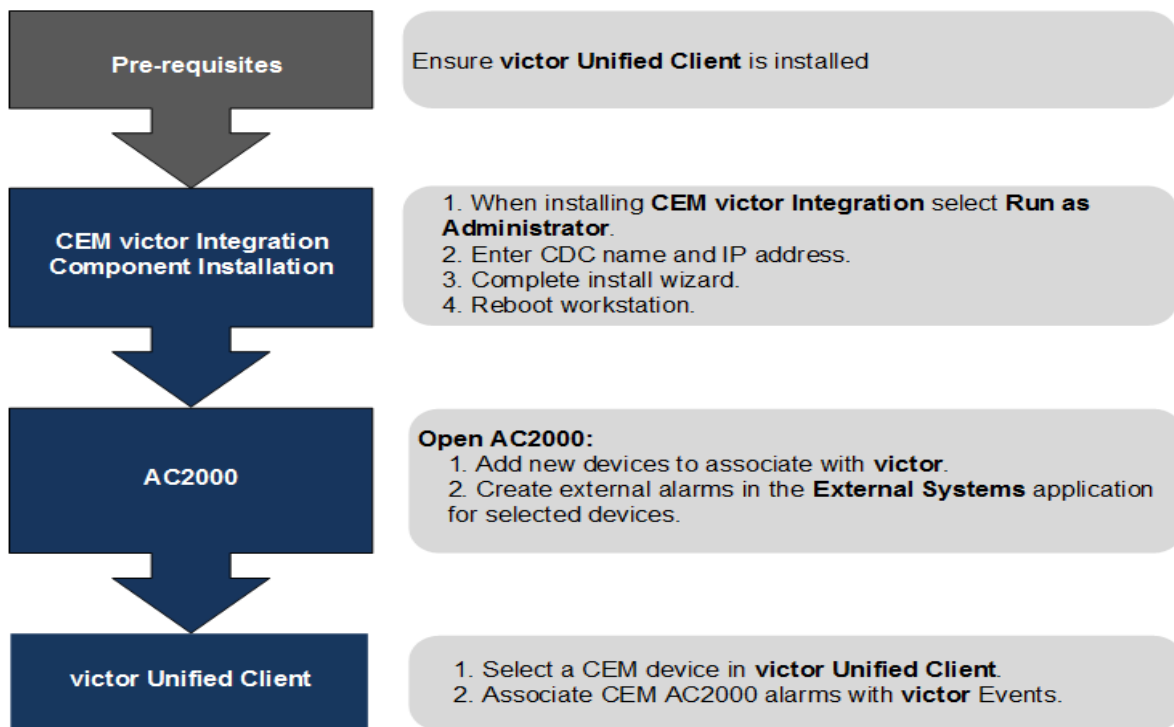

Pre-requisites	Ensure **victor Unified Client** is installed
CEM victor Integration Component Installation	1. When installing **CEM victor Integration** select **Run as Administrator**. 2. Enter CDC name and IP address. 3. Complete install wizard. 4. Reboot workstation.
AC2000	**Open AC2000:** 1. Add new devices to associate with **victor**. 2. Create external alarms in the **External Systems** application for selected devices.
victor Unified Client	1. Select a CEM device in **victor Unified Client**. 2. Associate CEM AC2000 alarms with **victor** Events.

Figure 2 CEM victor Integration - where **victor Site Manager** is on a different workstation

1.3 Installation Prerequisites

1. Ensure that **victor Unified Client** and **victor Site Manager** are both installed, following installation instructions from the relevant victor product manuals.

2. A **CEM victor Integration** licence has been added to AC2000 via **AC2000 WEB**. (Please refer to Section 1.3.1)

3. Ensure that the **CEM victor Integration** service is enabled. (Please refer to Section 1.3.2)

4. Check that all services are stopped in **victor Site Manager** (Please refer to Section 7)

1.3.1 Applying licence to AC2000 server (CDC0)

A **victor** licence must be obtained and typed in the AC2000 Web Pages.

1. Log into **AC2000 WEB**.

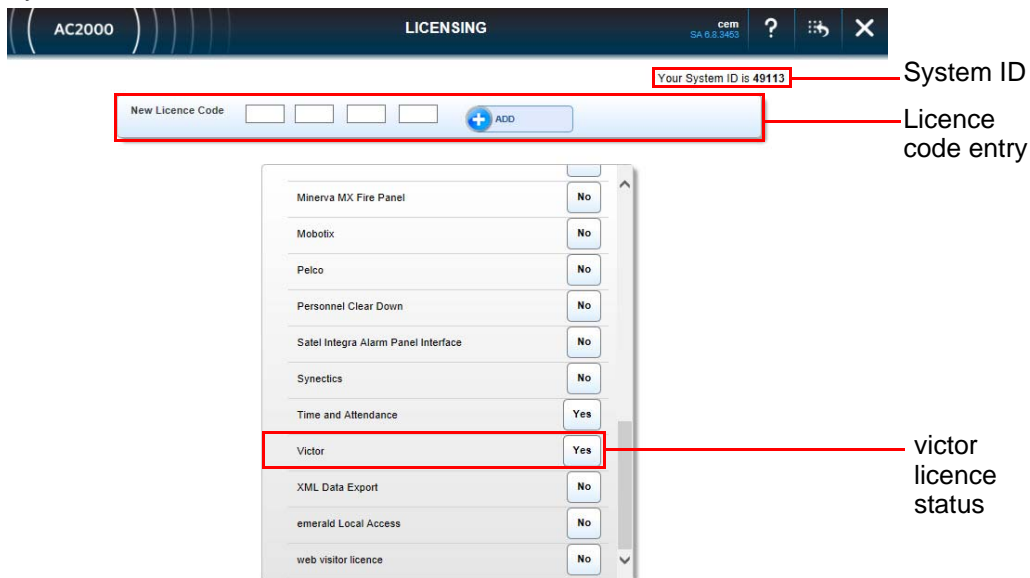2. Navigate to **AC2000 Setup | Licencing**.

Figure 3 Licencing code entry function

3. In the **Licencing** application, type the **victor** licence code and click **Add**.

Note

If no licence has been obtained at this point, call CEM Support, quoting your **System ID** number to receive the appropriate **New Licence Code**.The **System ID** is displayed at the top right of the **Licencing** application interface.

4. Once the Licence code has been applied, scroll the list to check that **'Yes'** is displayed beside the **victor** integration. Also a message notifying the user that the licence has been successfully applied is displayed beside the **Add** button.

Figure 4 Adding licence to the CDC

5. Exit **AC2000 WEB**.

1.3.2 Enabling the CEM victor Integration service

⚠ **Warning**

A licence must be purchased before integrating a 3rd party system with AC2000. Please contact CEM Support or CEM Sales for further details.

Before using the integration in the AC2000 system, it must be enabled on the CDC by performing the following steps:

1. Open a **SSH** terminal emulator connection (such as PuTTY) with the CDC.

2. Login as user: `root`

3. Type the letter **I** in the command line and press return to display the **Integrations menu**.

```
Integrations menu:
 1)AD TVR                              2)AD Hybrid DVR
 3)AD NTLX and VE                      4)Airport Edition
 5)BACnet or Minerva MX Fire panels    6)Bosch
 7)Contact ID Interface               8)DSC PowerSeries
 9)Galaxy                            10)Genetec
11)IndigoVision SMS4                 12)MatriVideo
13)Milestone                         14)Satel Integra
15)Victor                           16)API
17)Portables subsystem
Select Integration to Set Up(or X to eXit):_
```

Figure 5 Integrations menu in terminal emulator

4. Type the option number corresponding with **victor** (15 in the example displayed above) and press **Return** to run the enabling script.

5. Press **Return** when prompted to display the integrations menu again.

6. Type **X** and press **Return** to exit integrations menu.

7. Type **L** and press **Return** to log out of terminal emulator session.

Chapter 2
Installing CEM victor Integration Component

2.1 Prerequisites

Before installation of the **CEM victor Integration Component**, it is essential to ensure that:

- Each step is performed as detailed in Installation Prerequisites on page 3

- The same user account is used when installing **CEM victor Integration** as used during **victor Unified Client** installation

2.2 Installing CEM victor Integration Component

1. Insert the installation **CEM victor Integration** CD into the CD-ROM drive. The setup program will automatically start. If the setup program does not automatically start, open Windows Explorer and navigate to the CD drive.

2. Right-click **CEMVictorSetup.exe** and select **Run as Administrator**.

3. Click **Next** to start the installation wizard.
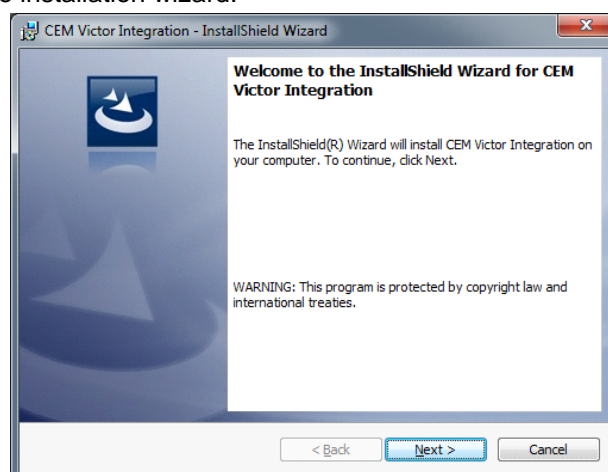
Figure 6 CEM victor Integration InstallShield Wizard

4. In the **CDC Information** window:

    i. Type correct CDC details in the **CDC Name** field (AC2000's server - default CDC0).

    ii. Type the correct IP address in the **IP Address** field.

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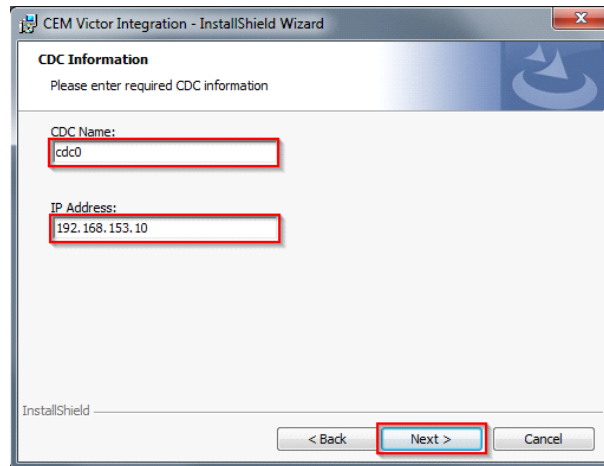iii. Click **Next** to continue.

Figure 7 CDC Information window

5. In the **Database Server** window, ensure that **Windows authentication credentials of current user** is selected. Click **Next** to continue.
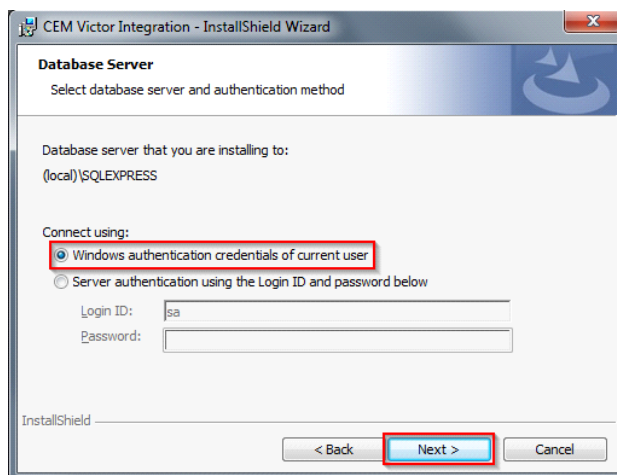

Figure 8 Database Server window

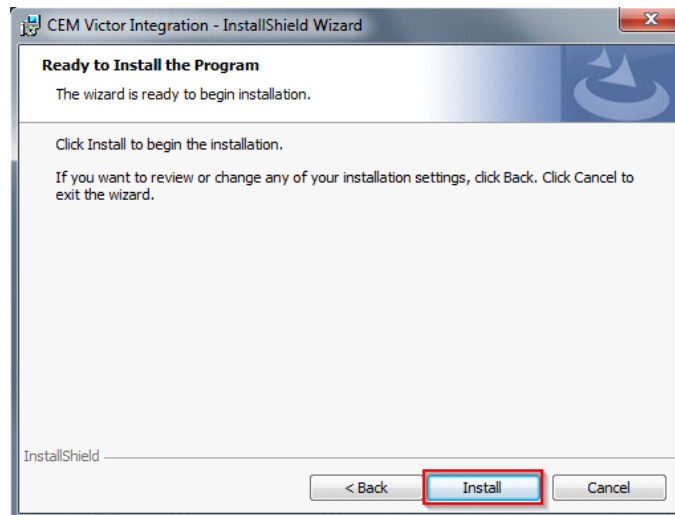6. On the **Ready to Install the Program** window, click **Install** to begin the installation.

Figure 9 Ready to Install the Program window

7. On the **InstallShield Wizard Completed** window, click **Finish** to complete the installation. **CEM victor Integration** is now installed.
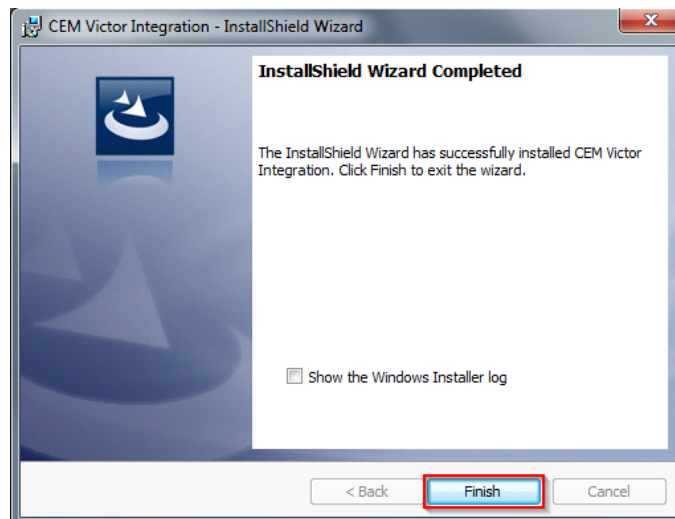

Figure 10 InstallShield Wizard Completed

Chapter 3
Configuring AC2000

Before alarms can be added in AC2000 using **CEM victor Integration Component**, card reading devices must be present and configured in AC2000.

3.1 Adding Alarms Using CEM victor Integration Component

If **Device Configuration | External Systems** is not showing by default on the AC2000 **Floatbar**, then it is not assigned to your user account. It is made visible using the **User Options** application in **Administration**:

1. Open **AC2000**.

2. On the AC2000 **Floatbar**, select **Administration | User Options**.
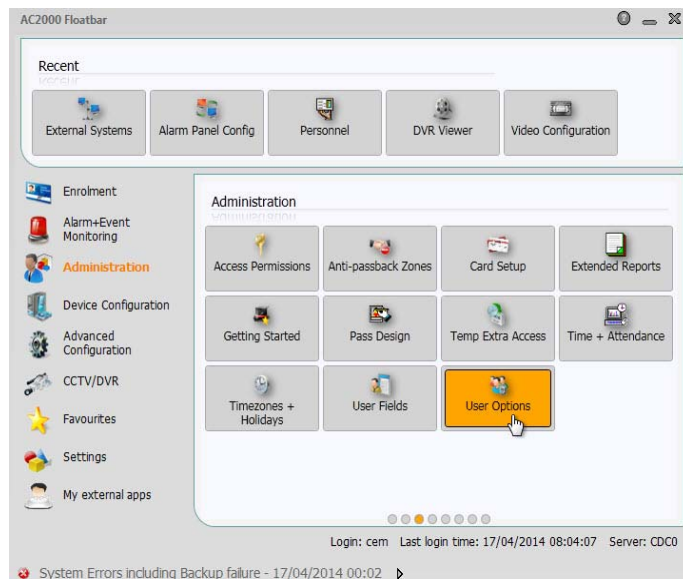

Figure 11 Locating **User Options** in **Floatbar**

3. In the **User Options** interface displayed, select your user account from the **User panel**.
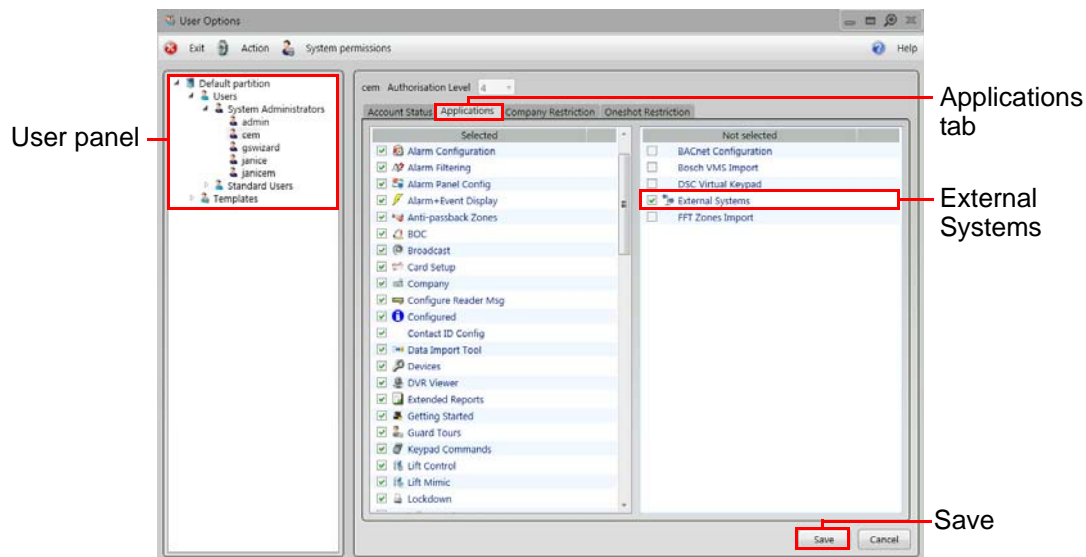

Figure 12 Assigning **Applications** to the user

4. Select the **Applications** tab.

5. In the **Not Selected** panel select **External Systems** and click **Save**.

External Systems will now be visible in AC2000 **Floatbar**. Perform the following actions:

1. Open **AC2000**.

2. In the **Categories** panel click **Device Configuration**.

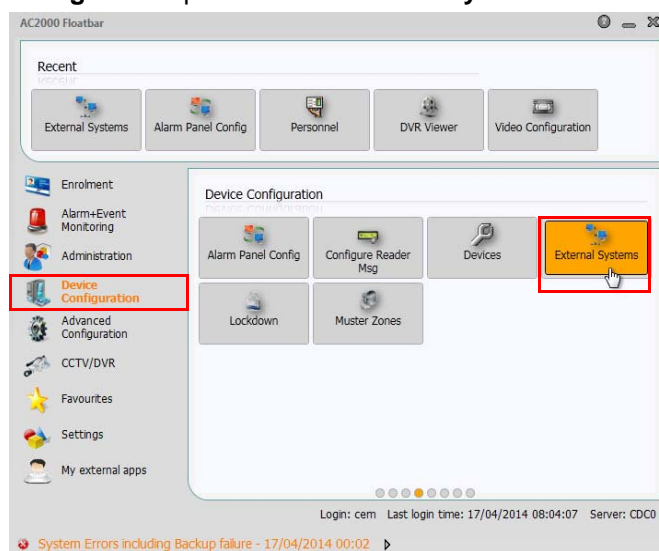3. In the **Device Configuration** panel select **External Systems**.

Figure 13 External Systems application

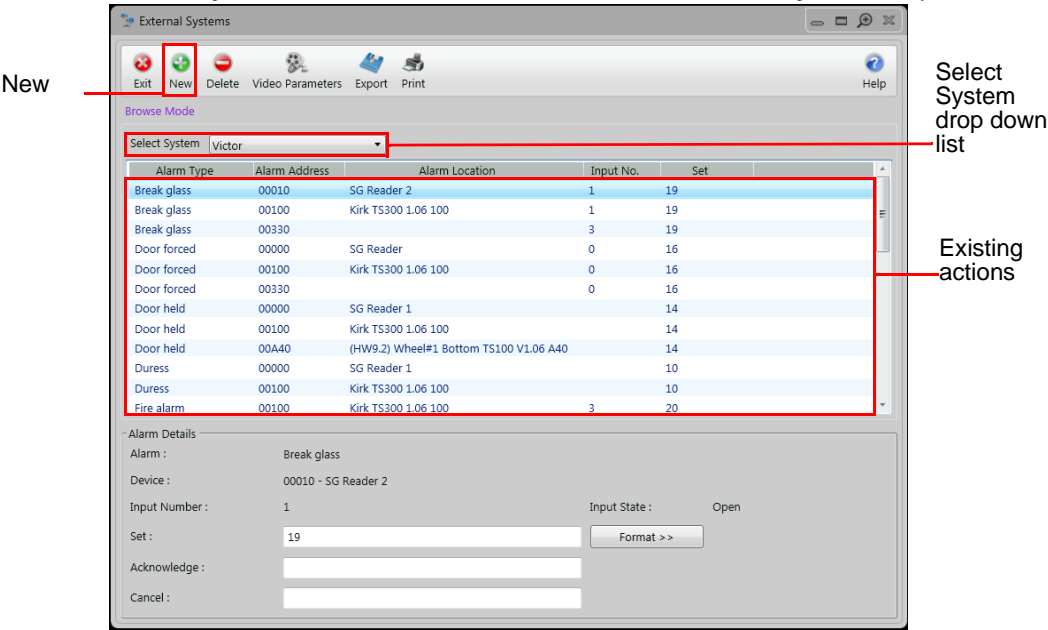4. In the **External Systems** interface, select **Victor** from the **Select System** drop down list.

Figure 14 Adding a new action

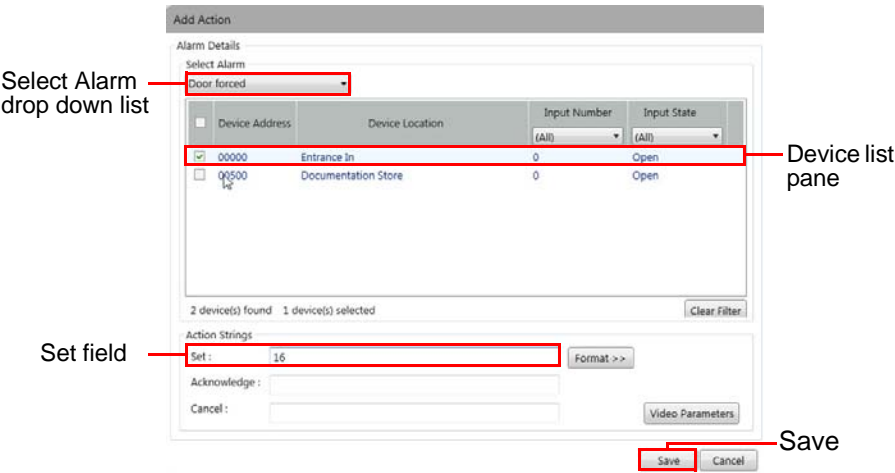5. Click **New** to display the **Add Action** interface.

Figure 15 Add Action Interface - example

6. From the **Select Alarm** drop down list, choose the alarm type e.g. **Door forced**:

Note

The reader in question, must already be configured with an input for the alarm type selected in AC2000 **Devices**.

   i. From the **Device list pane**, select the device to assign the alarm to by placing a tick in the checkbox.

   ii. Type the correct alarm code number in the **Set** field. (See Table 1 on page 14).

Note

The example in Figure 15 shows a **Door forced** alarm assigned to the '**Entrance In**' device with the **Action String** set to Alarm code 16. Table 1 on page 14 lists the Alarm codes which can be entered in **External Systems** for each alarm type mapped using the **victor** client.

7. Click **Save** to complete the alarm configuration using the **victor** integration component.

3.1.1 Alarm codes

Alarm code	Description
Access control Alarms	
10	Duress Alert
11	Tamper Alert
12	Lost Stolen Alert
13	Offline Alert
14	Door Held Alert
15	Panic Alert
16	Door Forced Alert
17	General Alert
18	Pin Alert
19	Break Glass Alert
20	Fire Alert
Intruder Alarms	
30	SIA Tamper Alert
32	SIA Holdup Alert
34	SIA Panic Alert
36	SIA Burglary Alert
38	SIA Galaxy Alert
Generic Reader Alerts (via victor alarm priority)	
0	Critical Alert
1	Very High Alert
2	High Alert
3	Medium High Alert
4	Medium Alert
5	Medium Low Alert
6	Low Alert
7	Very Low Alert

Table 1: Alarm codes for use in AC2000 **External Systems** and victor Client

Chapter 4
Confirming Successful Integration

4.1 Confirming Successful Integration

Start AD **victor Unified Client** to confirm the successful integration of CEM devices.

1. Run AD **victor Unified Client** as Administrator after initial installation. Subsequently double-click on **victor Unified Client** to open.
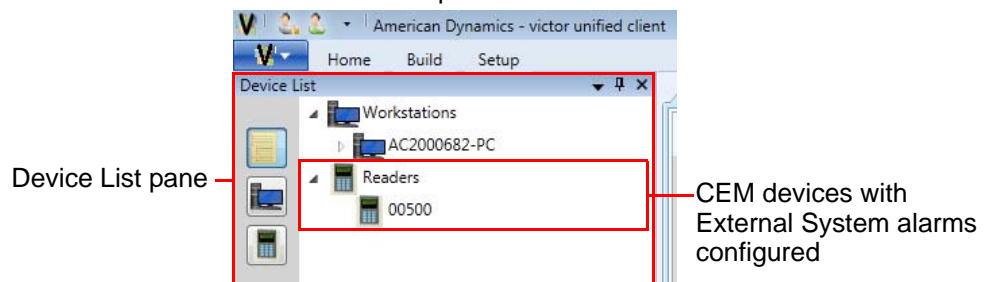
Device List pane

CEM devices with External System alarms configured

Figure 16 Device List in **victor Unified Client**

2. Confirm that all CEM devices with **External System** alarms configured are displayed in the **Readers** drop down list in the **Device List** pane.

Note

Only devices with alarms configured in **External Systems** are imported.

Note

If a CEM device still does not appear in the **Device List** after using **Sync Access** function, open **victor Site Manager** and stop and restart services.

3. Once imported devices appear in the **Device List**, confirm that commands are being sent to CEM devices from **victor Unified Client**:

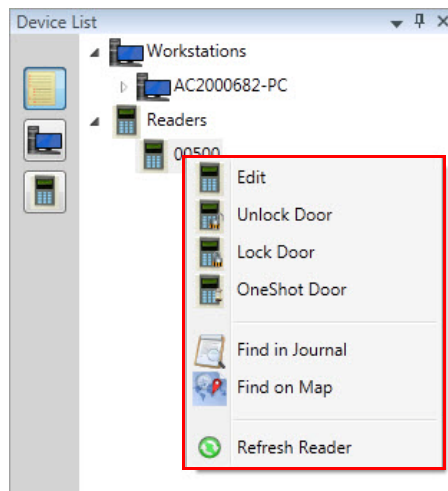i.   Right click on a CEM device in the **Device List** to display a list of options.

Figure 17 Device options

ii. Select a command to send to a device, e.g. **Oneshot Door**.

iii. Check that the command was sent to the reader.

Once testing is successfully finished, the installation and setup of the integration are complete.

4.2 Configuring Devices in victor Unified Client

All guidance regarding the mapping of **victor** actions to alarms generated by CEM devices in **victor Unified Client** can be found in the relevant **victor** instruction manual.

⚠ Important

Guidance notes in Appendix A should be treated only as a guide to configuring limited actions related to CEM devices. Please refer to the **victor** instruction manual for full instructions.

Appendix A: victor Unified Client - Mapping Alarms

To map the AC2000 alarms to **victor Site Manager** events, there are five steps:

1. Creating a Salvo.

2. Creating a Video Action.

3. Creating an Event.

4. Setting up an Event.

5. Testing the Integration.

Note

Optionally, imported readers can be displayed on a map. Please see Mapping the Readers in Appendix B for instructions.

Step 1 - Creating a Salvo

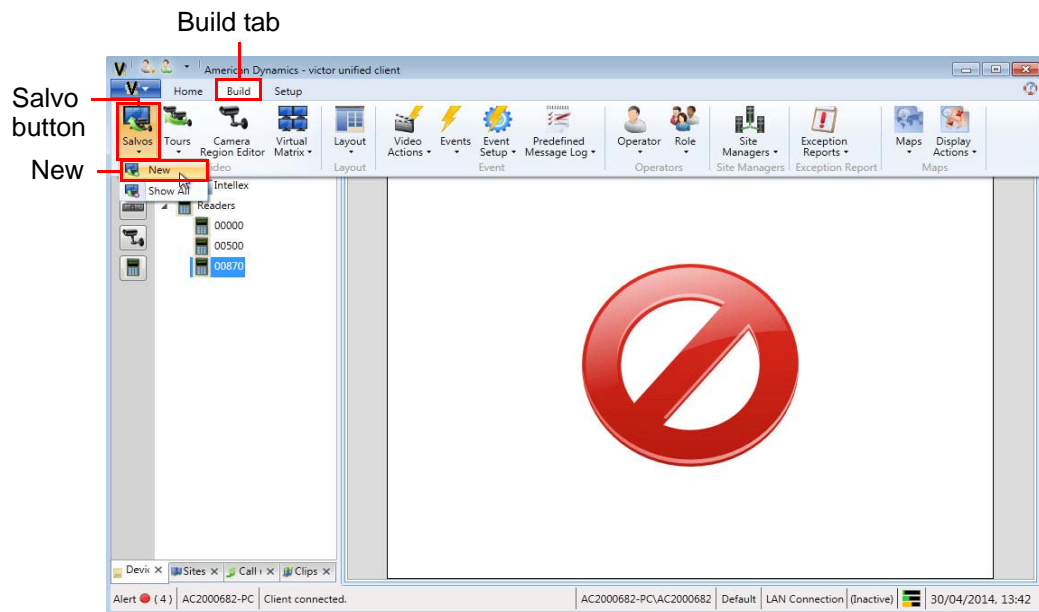1. Start the **victor Unified Client**.

Figure 18 victor Unified Client

2. Select the **Build** tab.

3. Select the **Salvos** drop down list.

4. Select **New** to display a **New Salvo** interface.

Figure 19 Adding a New Salvo

5. In the **General** pane:

    a. Type a name for the salvo in the **Name** field.

    b. Type a description for the salvo in the **Description** field.

    c. Place a tick in the **Enabled** checkbox.

6. In the **Salvo** pane:

    a. Select the **Recorders** tab.

    b. Expand the drop down list of cameras for one of the listed recorders.

    c. Drag and drop cameras from the **Recorder** tab (left) across into Salvo details pane (right).

7. Set a screen **Layout** for the camera display by placing a check in the **Layout** checkbox and selecting a screen layout, e.g. **2x2**.

Note

Setting a **Layout** automatically populates the **Pane** column with pane numbers to which each camera is assigned.

Figure 20 Salvo details pane

8. The association of cameras with monitor pane numbers can be changed according to user preference. Refer to the relevant **victor** instruction manual for instructions for this option.

9. Click **Save and Close**.

Step 2 - Creating a Video Action

1. From the main **victor Unified Client** interface, select the **Build** tab.
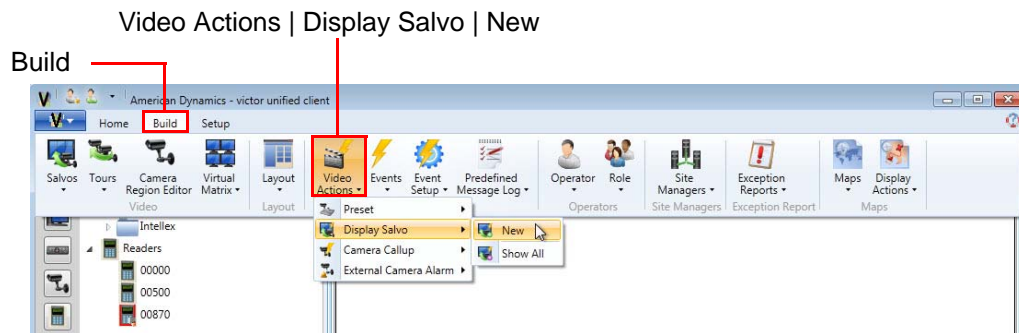
Figure 21 Adding a video action

2. Select the **Video Actions** drop down list button.

3. **Display Salvo** drop down list option.

4. Select **New** to display a **New Display Salvo Action** interface.
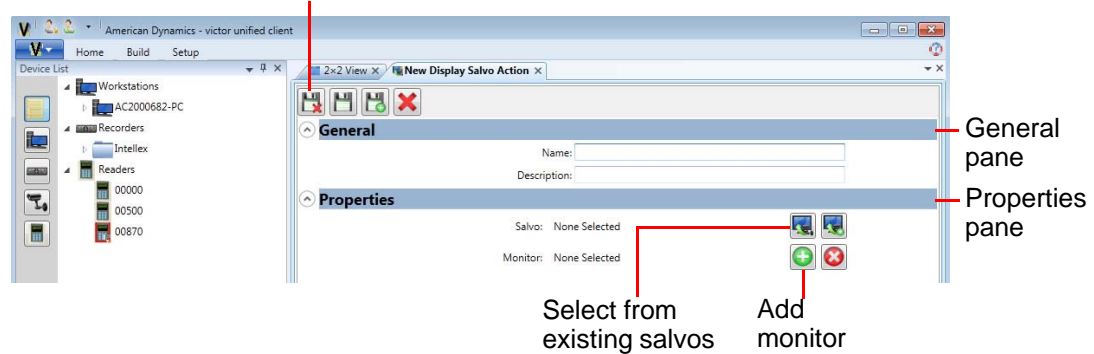
Figure 22 New Display Salvo Action interface

5. In the **General** pane:

    i.   Type a name for the Display Salvo Action in the **Name** field. For the purposes of this example, the name given is 'Video Actions - CEM Test'.

    ii. Type a description for the Display Salvo Action in the **Description** field.

6. In the **Properties** pane:

 i. Click **Select from existing salvos** button to display the **Object Selector** window.
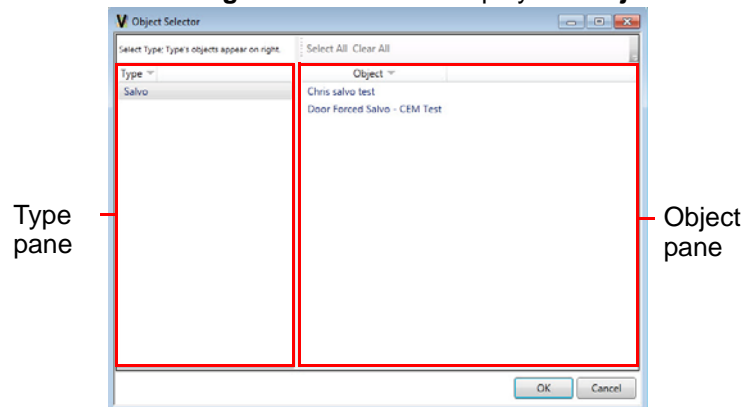
Figure 23 Object Selector window

 ii. From the **Type pane**, select **Salvo**.

 iii. From the **Object pane**, select the salvo created in Step 1 (**Door Forced Salvo - Cem Test** in this example).

 iv. Click **OK** to confirm selection and return to **New Display Salvo Action** interface.

7. Click **Add monitor** button to display the **Object Selector** window.

Figure 24 Object Selector window

 i. From the **Type pane**, select **Monitor**.

 ii. From the **Object** pane, select a monitor to display the Video Action on.

 iii. Click **OK** to confirm selection and return to **New Display Salvo Action** interface.

Figure 25 New Display Salvo Action interface

8. Click **Save and Close**.

Step 3 - Creating an Event

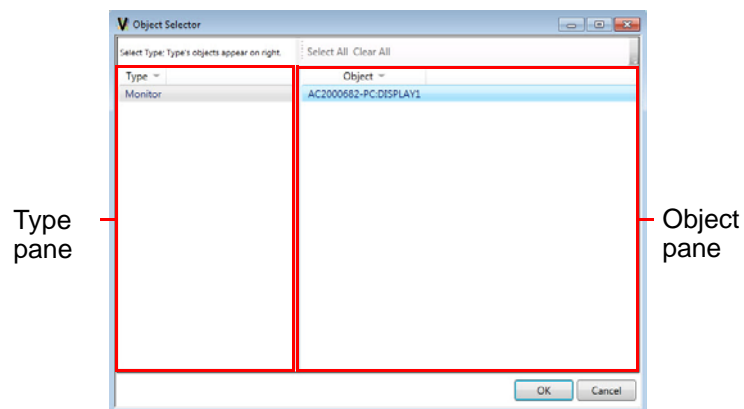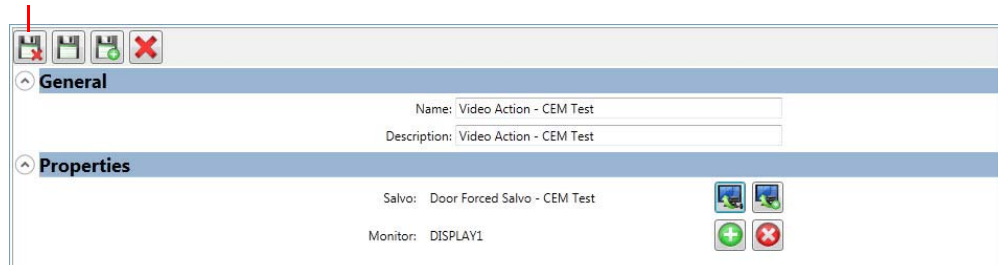1. From the main **victor Unified Client** interface, select the **Build** tab.
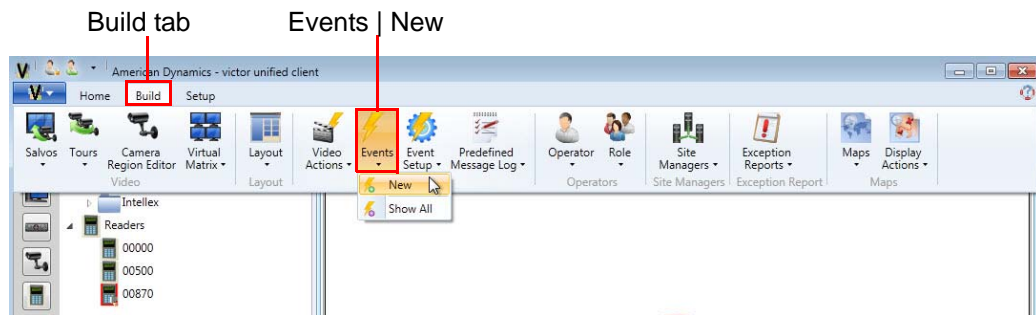
Figure 26 Adding an Event

2. Select the **Events** drop down list button.

3. Select **New** to display a **New Event** interface.
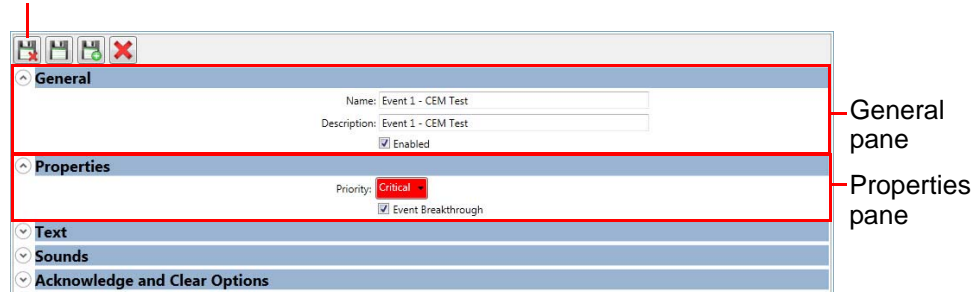
Figure 27 New Event interface

4. In the **General** pane:

    a. Type a name for the New Event in the **Name** field. For the purposes of this example, the name **Event 1 - CEM Test** is used.

    b. Type a description for the New Event in the **Description** field.

5. In the **Properties** pane:

    a. From the **Priority** drop down list, select the priority which will be assigned to the incoming alarm event. This establishes the importance assigned to the incoming alarm, so that the user can easily identify a critical alarm over a non-critical alarm.

    b. Place a tick in the **Event Breakthrough** checkbox if required.

6. Click **Save and Close**.

Note

Other configurable options are available in the **Text**, **Sounds** and **Acknowledgements** expandable panes. Functions and options not specifically discussed in this Appendix, are not supported by CEM Systems. Reference should be made to AD **victor** documentation.

Step 4 - Setting up an Event

1. From the main **victor Unified Client** interface, select the **Build** tab.

Events Setup | Events Setup
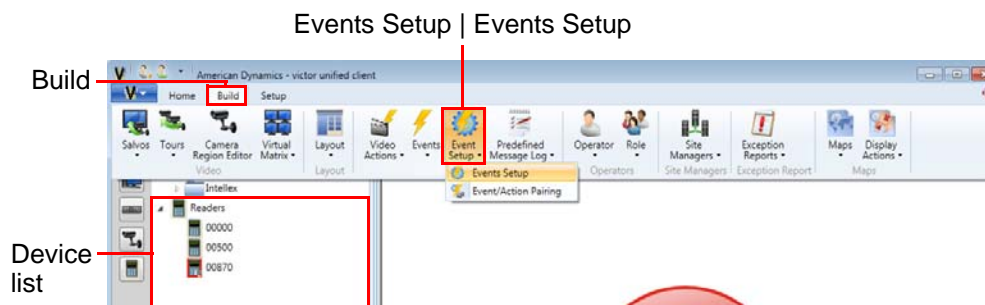
Figure 28 Opening Events Setup

2. Select the **Event Setup** drop down list button.

3. Select **Events Setup** to display the **Events Setup** interface.

Save and
close

Devices pane   Alerts pane   Actions pane
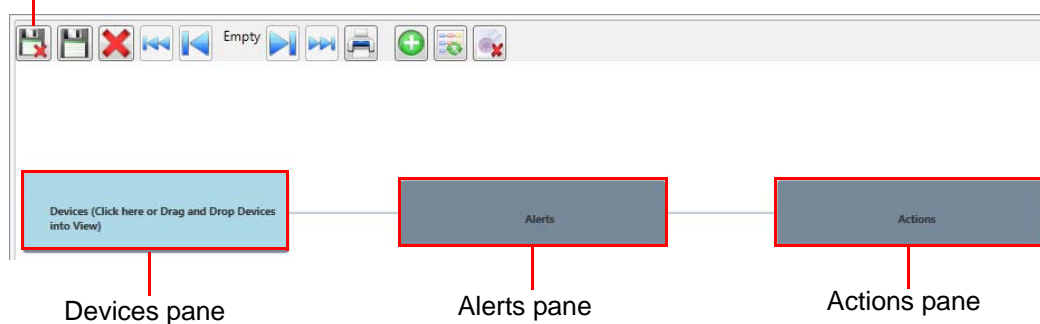
Figure 29 Events Setup interface

4. Drag and drop a reader from the **Device List** to the **Devices** pane.

Note

A reader is only available for selection in the **Device List** of **victor Unified Client**, if it has an association in the **External Systems** application in AC2000.

Device
added
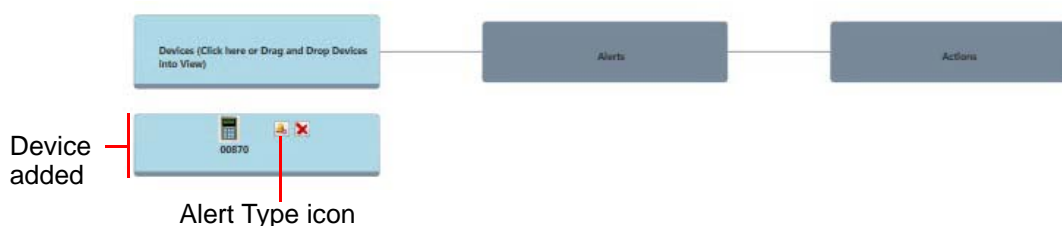
Alert Type icon

Figure 30 Device added to the **Events Setup** interface

5. Select the **Select Alert Type** icon (See Figure 30) and choose an alert or alerts from the list displayed.

Note

All alarms can be selected at once by checking the **Select All** checkbox.

Select All alerts

List of alerts
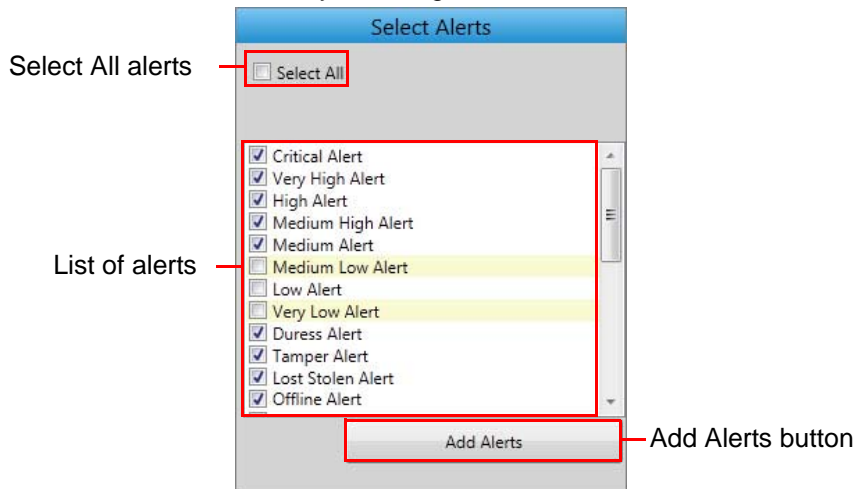
Add Alerts button

Figure 31 Select Alerts window

6. Select **Add Alerts** button. You can add a single or multiple alerts at once.

Action to Trigger icon
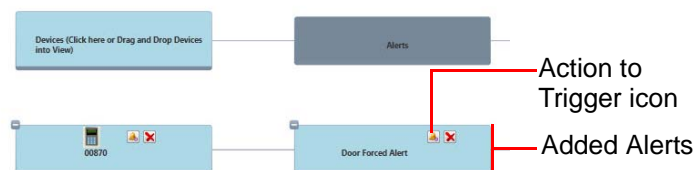
Added Alerts

Figure 32 Alerts added to the **Events Setup** interface

7. Select the **Action to Trigger** icon on added alerts, to display the **Object Selector** window.

8. Select the **Type** of action from the left pane and select the **Object** from the right pane of the **Object Selector** window.

Note

In the example given in this document, the first **Type** was **Display Salvo Action** and the name (**Object)** given to it was **Video Action 1**.

Type pane

Object pane
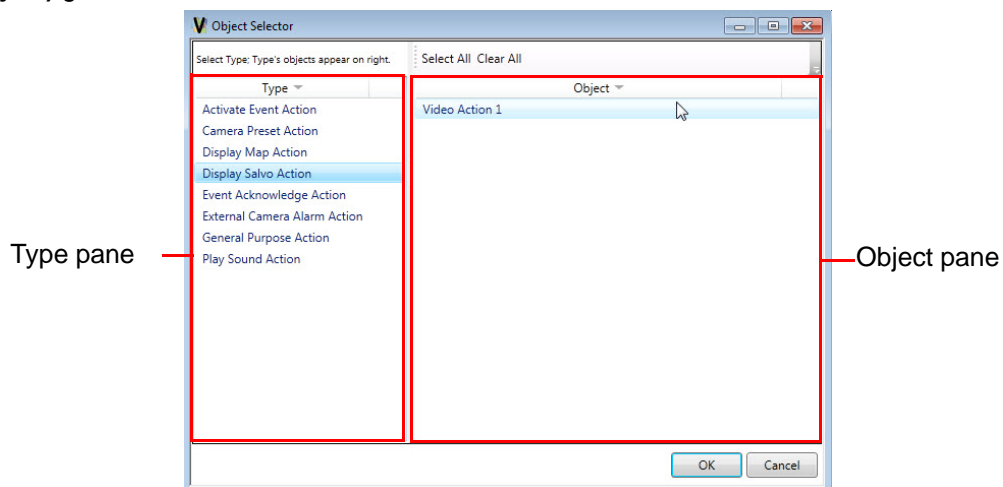
Figure 33 Selecting an Action to Trigger (**Display Salvo Action**)

9. Repeat steps 7 and 8 to add further **Action to Trigger** entries.

Note

The second **Type** used in this document was **Activate Event Action** and the name (**Object**) given to it was **Event 1**. Each **Action to Trigger** must be added separately, i.e. they can not be added at the same time.

Type pane
Object pane
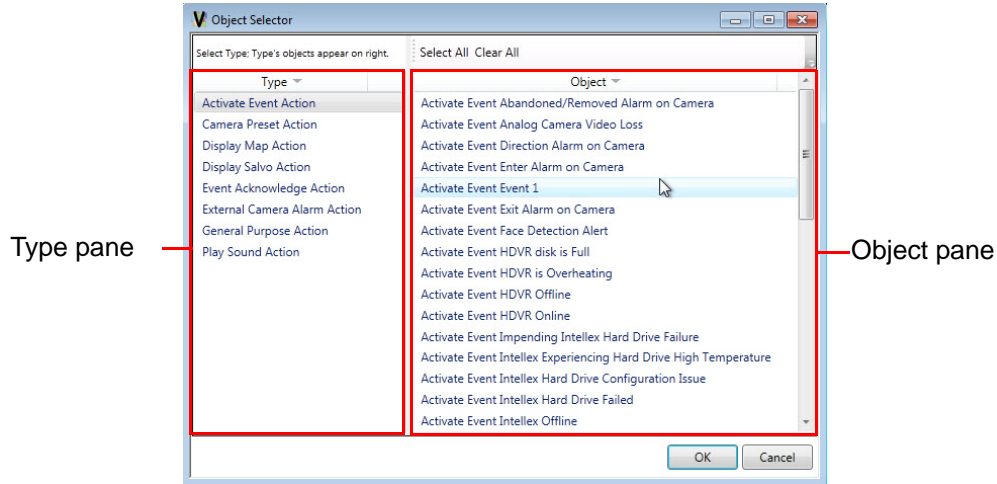
Figure 34 Selecting an Action to Trigger (**Activate Event Action**)

10. Select **OK** to confirm selection of each **Action to Trigger**. This automatically closes the **Object Selector** window and returns the user to the Events Setup interface.
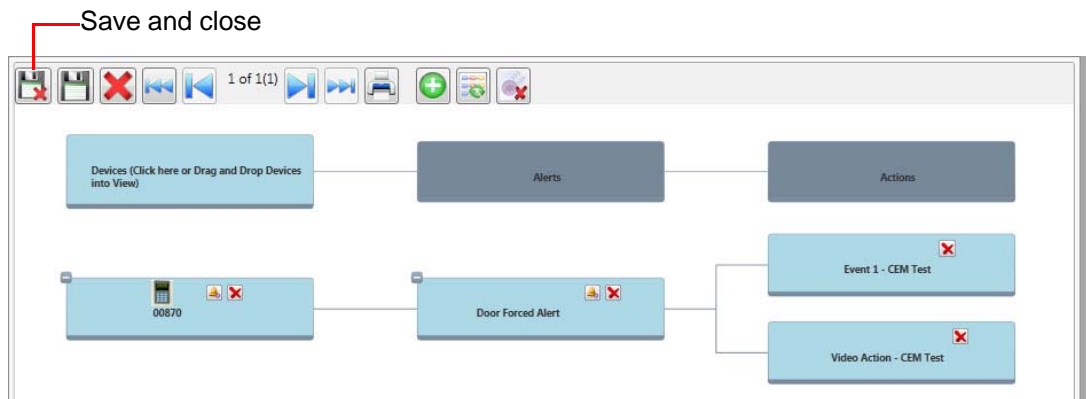
Save and close

Figure 35 Actions added to the **Events Setup** interface

11. Select the **Action to Trigger** icon on the same alarm and repeat steps 7 and 8 until all created Actions are added as necessary.

12. Click **Save and Close** on the **Events Setup** interface.

Step 5- Testing the Integration

To test that the integration has been successful, conduct tests such as holding a door open to make sure that it generates an alarm in the **victor Unified Client** (Assumption is made that a Door Held alarm has been configured for the device being tested). The camera footage displayed as a result of the test, must also be checked thoroughly to ensure that the correct cameras have been configured.

Finally check that the generated alarm is displayed on the map, if this is a feature that has been configured. See Appendix B for instructions on mapping readers in **victor Unified Client**

Appendix B: Mapping the Reader (Optional)

Note

Mapping the readers is not an essential step for this integration.

1. From the main **victor Unified Client** interface, select the **Build** tab.

Build tab   Maps | Show All
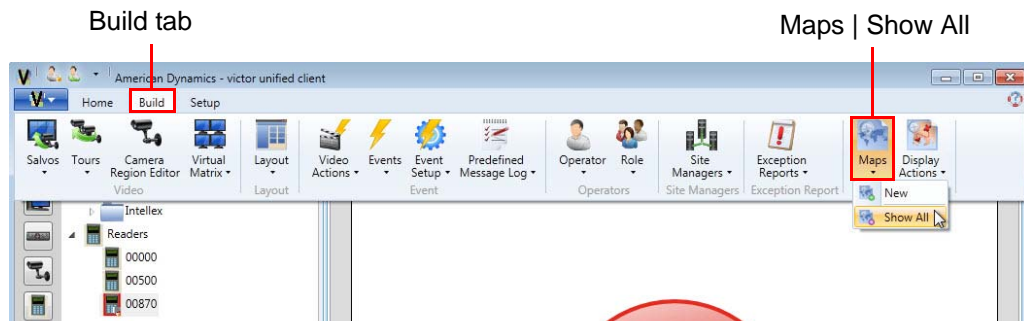
Figure 36 Opening Maps

2. Select the **Maps** drop down list button.

3. Select **Show All** to display the **List of saved maps**.

Note

For the purposes of these instructions, it is assumed that at least one map has already been added. Please refer to **victor** documentation for instructions how to add a new map.
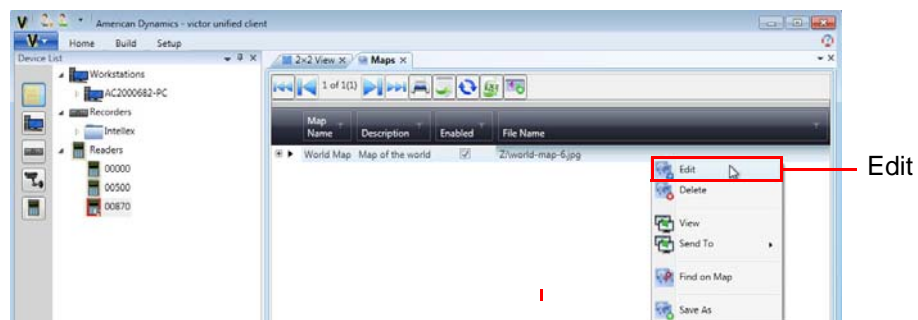
Figure 37 Selecting a map to display

4. Right click on a map in the main pane and click **Edit** from the menu (Assumption is made that a map has already been added). This displays a map editor interface:
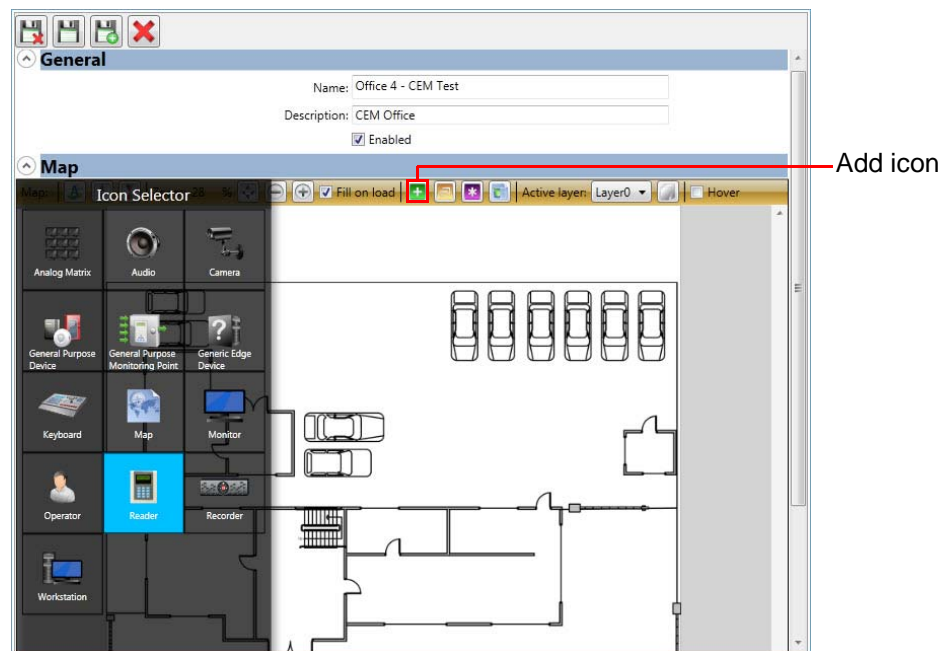
Figure 38 Map editor interface

5. In the **Map** pane:

   a. Click the **Add** button to display the **Icon Selector panel**.

   b. Double click the **Reader** button in the **Icon Selector panel** to place a reader icon on the map.

   c. Drag and drop the reader icon on the appropriate map location.

   d. Once the icon is in the correct position, right click the placed icon and select **Drop on map**, which opens up a **Icon configuration pane**.
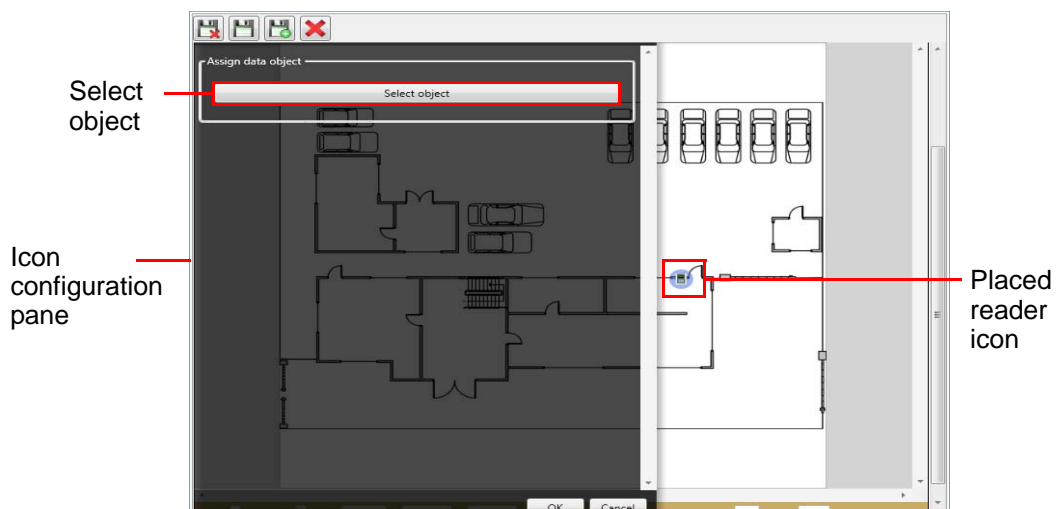
Figure 39 Icon configuration pane

6. In the configuration pane, press **Select object** to display the **Object Selector** window.
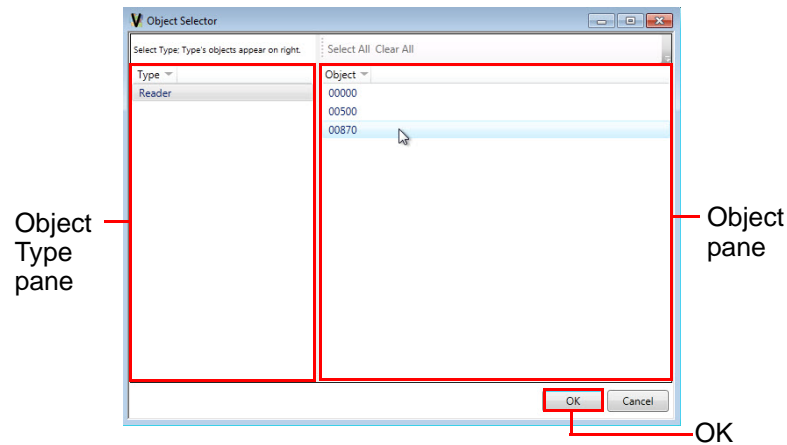
Figure 40 Selecting a device to associate with an icon

7. From the object's **Type** pane, select **Reader**.

8. From the **Object** pane, select the correct reader to associate with the new icon.

9. Click **OK** to return to the **Object configuration pane**.

10. In the **Object configuration pane**, which is now expanded to display multiple options for the new icon; configure **Assign Images**, **Assign alerts**, **Assign dynamic text** and **Assign left-click action**.

Note

Please refer to **victor** documentation for instructions how to configure these icon options.

Appendix C: Upgrading the CEM victor Integration to align with an update to victor version 4.7

Overview

If you are upgrading your **CEM victor Integration** from version 4.6, you must:

- uninstall any previous versions of the integration.
- integrate AC2000 functionality with **victor Unified Client**.
- install a new **CEM victor Integration**.

Uninstalling previous **CEM victor Integration** version 4.6 or 4.7

To upgrade your **CEM victor Integration**, you must uninstall any previous version of this integration. To uninstall a previous **CEM victor Integration**, do the following:

1. Open the **victor Server Configuration Application**.
2. Click the **Stop** button for **CrossFire Framework Service**. This closes all services. Close the **victor Server Configuration Application**.
3. Uninstall **CEM victor Integration** from Windows **Control Panel**. Reboot the workstation.

Integrating AC2000 functionality with victor Unified Client

You must apply a patch to the AC2000 server to integrate AC2000 functionality into the **victor Unified Client**. To apply this patch, do the following:

1. Open **Internet Explorer**.
2. Log into AC2000 Web.
3. Click **System**.
4. Click **Software Update**.
5. Browse to the **vic_filt71.cpio.bz2** patch.
6. Click **Upload**. The screen displays a confirmation that the upload was successful.

Installing new CEM victor Integration

To install the new **CEM victor Integration**, do the following:

1. Log onto a workstation that has **victor Site Manager** and **victor Unified Client** installed on it.
2. Open the **victor Server Configuration Application**.
3. Click the **Stop** button for **CrossFire Framework Service**. This closes all services. Close the **victor Server Configuration Application**.
4. Install **CEM victor Integration** 4.7. Reboot the workstation.

Note

The **CEM victor Integration** must be licensed through the Victor Licensing application. Please obtain a new license from American Dynamics Technical Support.

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